

AMENDMENTS TO THE CLAIMS

1.-3. (Canceled).

4. (Currently Amended) An imaging apparatus comprising:

a solid imaging device in which pixel information of two adjoining lines composes color information of three primary colors, said solid imaging device comprises a matrix of transferring gates, to which gate pulses for transferring only the pixel information of pairs of two adjoining lines with intervals of a plurality of lines to vertical transferring routes are applied when image signals with low definition are produced~~said solid imaging device as set forth in claim 1;~~

a shooting optical system that forms a subject image on a receiving surface of said solid imaging device;

a timing generator that drives said solid imaging device and reads pixel information from said solid imaging device, the timing generator applying gate pulses for transferring only pixel information of pairs of two adjoining lines with intervals of a plurality of lines to vertical transferring routes to said transferring gates when image signals with low definition are produced; and

a signal processing device that produces the image signals by producing pixel information of one line from the pixel information of each pair of two adjoining lines read from said solid imaging device when the image signals with the low definition are produced.

5. (Original) The imaging apparatus as set forth in claim 4, wherein said timing generator applies gate pulses for transferring pixel information of all the vertical lines to said vertical

transferring routes without reducing the pixel information to said transferring gates at least when image signals with high definition are produced.

6. (Original) The imaging apparatus as set forth in claim 4, wherein said timing generator applies gate pulses for dividing pixel information of all the vertical lines into pixel information of a plurality of fields to transfer the pixel information to said vertical transferring routes to said transferring gates at least when image signals with high definition are produced.

7. (Original) The imaging apparatus as set forth in claim 4, wherein said signal processing device reduces pixel information of horizontal lines when image signals with low definition are produced.

8. (Original) The imaging apparatus as set forth in claim 4, wherein:
said signal processing device has an interpolation operation device that interpolates the image signals with the low definition to produce image signals; and
said signal processing device outputs image signals including the produced image signals.

9. (Original) The imaging apparatus as set forth in claim 4, further comprising a displaying device that displays a shot image according to the image signals with the low definition.

10. (Original) The imaging apparatus as set forth in claim 4, further comprising a recording device that records the image signals of the high definition.

11. (Previously Presented) A driving method for a solid imaging device in which pixel information of two adjoining lines composes color information of three primary colors, comprising the steps of:

applying gate pulses for transferring pixel information of all vertical lines to vertical transferring routes without reducing the pixel information to a matrix of transferring gates when image signals with high definition are produced;

applying gate pulses for transferring only pixel information of pairs of two adjoining lines with intervals of a plurality of lines to said vertical transferring routes to said matrix of transferring gates when image signals with low definition are produced; and

producing pixel information of one line from the pixel information of each pair of two adjoining lines read from said solid imaging device when the image signals with the low definition are produced.

12. (Previously Presented) A driving method for a solid imaging device in which pixel information of two adjoining lines composes color information of three primary colors, comprising the steps of:

applying gate pulses for dividing pixel information of all vertical lines into pixel information of a plurality of fields and transferring the pixel information to vertical transferring routes to a matrix of transferring gates when image signals with high definition are produced;

applying gate pulses for transferring only pixel information of pairs of two adjoining lines with intervals of a plurality of lines to said vertical transferring routes to said matrix of transferring gates when image signals with low definition are produced; and

producing pixel information of one line from the pixel information of each pair of two adjoining lines read from said solid imaging device when the image signals with the low definition are produced.

13.-15. (Canceled).

16. (Currently Amended) An imaging apparatus comprising:

a solid imaging device in which pixel information of two adjoining lines composes color information of three primary colors, said solid imaging device comprises transferring gates, each associated with a photoelectric transferring device, to which gate pulses for transferring only the pixel information of pairs of two adjoining lines with intervals of a plurality of lines to vertical transferring routes are applied when image signals with low definition are produced~~said solid imaging device as set forth in claim 13;~~

a shooting optical system that forms a subject image on a receiving surface of said solid imaging device;

a timing generator that drives said solid imaging device and reads pixel information from said solid imaging device, the timing generator applying gate pulses for transferring only pixel information of pairs of two adjoining lines with intervals of a plurality of lines to vertical

transferring routes to said transferring gates when image signals with low definition are produced; and

a signal processing device that produces the image signals by producing pixel information of one line from the pixel information of each pair of two adjoining lines read from said solid imaging device when the image signals with the low definition are produced.

17. (Previously Presented) The imaging apparatus as set forth in claim 16, wherein said timing generator applies gate pulses for transferring pixel information of all the vertical lines to said vertical transferring routes without reducing the pixel information to said transferring gates at least when image signals with high definition are produced.

18. (Previously Presented) The imaging apparatus as set forth in claim 16, wherein said timing generator applies gate pulses for dividing pixel information of all the vertical lines into pixel information of a plurality of fields to transfer the pixel information to said vertical transferring routes to said transferring gates at least when image signals with high definition are produced.

19. (Previously Presented) The imaging apparatus as set forth in claim 16, wherein said signal processing device reduces pixel information of horizontal lines when image signals with low definition are produced.

20. (Previously Presented) The imaging apparatus as set forth in claim 16, wherein:

said signal processing device has an interpolation operation device that interpolates the image signals with the low definition to produce image signals; and

said signal processing device outputs image signals including the produced image signals.

21. (Previously Presented) The imaging apparatus as set forth in claim 16, further comprising a displaying device that displays a shot image according to the image signals with the low definition.

22. (Previously Presented) The imaging apparatus as set forth in claim 16, further comprising a recording device that records the image signals of the high definition.

23. (Previously Presented) A driving method for a solid imaging device in which pixel information of two adjoining lines composes color information of three primary colors, comprising the steps of:

applying gate pulses for transferring pixel information of all vertical lines to vertical transferring routes without reducing the pixel information to transferring gates, each associated with a photoelectric transferring device, when image signals with high definition are produced;

applying gate pulses for transferring only pixel information of pairs of two adjoining lines with intervals of a plurality of lines to said vertical transferring routes to said transferring gates when image signals with low definition are produced; and

producing pixel information of one line from the pixel information of each pair of two adjoining lines read from said solid imaging device when the image signals with the low definition are produced.

24. (Previously Presented) A driving method for a solid imaging device in which pixel information of two adjoining lines composes color information of three primary colors, comprising the steps of:

applying gate pulses for dividing pixel information of all vertical lines into pixel information of a plurality of fields and transferring the pixel information to vertical transferring routes to transferring gates, each associated with a photoelectric transferring device, when image signals with high definition are produced;

applying gate pulses for transferring only pixel information of pairs of two adjoining lines with intervals of a plurality of lines to said vertical transferring routes to said transferring gates when image signals with low definition are produced; and

producing pixel information of one line from the pixel information of each pair of two adjoining lines from said solid imaging device when the image signals with the low definition are produced.